

# What's the Difference?: Maths : Year 5 : Autumn Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to use mental methods and number lines to find the difference between two numbers.	Children will start off with some simple mental subtraction problems before exploring how counting up on number lines can help work out the difference between two numbers. They are encouraged to use as few jumps as possible to help develop their mental subtraction skills. They can then investigate finding the smallest and largest differences in sets of numbers, or work out the answers to subtraction questions when the answers are represented as symbols.	<ul style="list-style-type: none"> <li>• Can children answer simple subtraction problems mentally?</li> <li>• Can children find the difference between two numbers using a number line?</li> <li>• Do children understand the link between addition and subtraction?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Challenge Card 1A/1B/1C</li> <li>• Match Me Cards 1A/1B (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To be able to solve subtraction problems mentally using increasingly large numbers.	During the teaching input, symbols are used to represent values. After ensuring they understand how the symbols work, they will then go on to use these symbols to subtract amounts mentally in jumps of 1000, 500, 200, 100, 50, 10 and 1. They are encouraged to solve increasingly tricky problems mentally, picturing a number line to help them if necessary. Their independent learning provides further opportunities to develop these skills.	<ul style="list-style-type: none"> <li>• Do children have a firm understanding of place value in four- and five-digit numbers?</li> <li>• Can children subtract simple multiples of ten, a hundred or a thousand mentally?</li> <li>• Can children subtract larger numbers mentally, including those with digits in more than one place value column?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Challenge Cards 2A/2B/2C</li> <li>• Symbol Key</li> <li>• Letter Value Cards (FSD? activity only)</li> <li>• Phrase Cards (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To be able to use the decomposition method to reinforce the formal column method of subtraction.	Children will recap the decomposition method of subtraction, focussing particularly on what happens when we exchange. Problems are represented visually as well as numerically to support this. They then go on to compare and link the decomposition and formal column subtraction methods. During their independent learning, they will further enforce their understanding of exchanging through investigations or written descriptions.	<ul style="list-style-type: none"> <li>• Can children solve subtraction calculations using the decomposition method?</li> <li>• Can children solve subtraction calculations using the formal column method?</li> <li>• Can children explain the process of exchanging and use it correctly when solving subtraction calculations?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 3A/3B/3C/3D</li> <li>• Calculation Cards 3A/3B/3C (FSD? activity only)</li> <li>• Challenge Card (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To be able to use the formal column method to solve subtraction problems.	This lesson starts by considering the methods examined in the earlier lessons, discussing which are easiest and most efficient. The slides then go through some real-life subtraction problems which children are encouraged to solve using formal column subtraction involving numbers up to six digits. They will then either use subtraction to find the difference between the areas of different countries or play a game to support their fluency with column subtraction.	<ul style="list-style-type: none"> <li>• Can children identify different subtraction methods and discuss their effectiveness?</li> <li>• Can children use the formal column method to solve four-digit calculations?</li> <li>• Can children use the formal column method to solve five-digit calculations?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Country Area Cards 🗺️</li> <li>• Worksheet 4A/4B/4C</li> <li>• Game Board 4A/4B (FSD? activity only)</li> <li>• Calculation Cards 4A/4B (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To be able to use formal column subtraction in the context of money.	Children will start by working out how much money is in two wallets by counting the notes and coins. They are then challenged to find the difference between these two amounts using column subtraction. The slides explain how to use decimals within column subtraction and children are given plenty of opportunities to practise this.	<ul style="list-style-type: none"> <li>• Can children use the formal column subtraction method?</li> <li>• Do children understand how to use formal column subtraction using decimals in the context of money?</li> <li>• Can children check their work for accuracy?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 5A/5B/5C/5D</li> <li>• Game Board 5A/5B (FSD? activity only)</li> <li>• Instruction Card 5A/5B (FSD? activity only)</li> <li>• Dice and counters (FSD? activity only)</li> </ul>